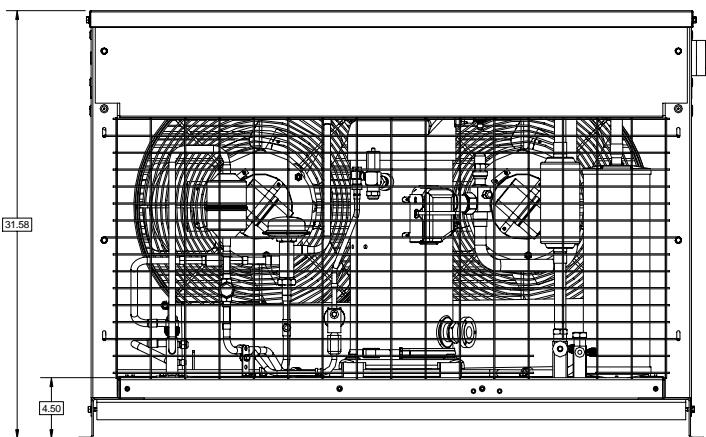
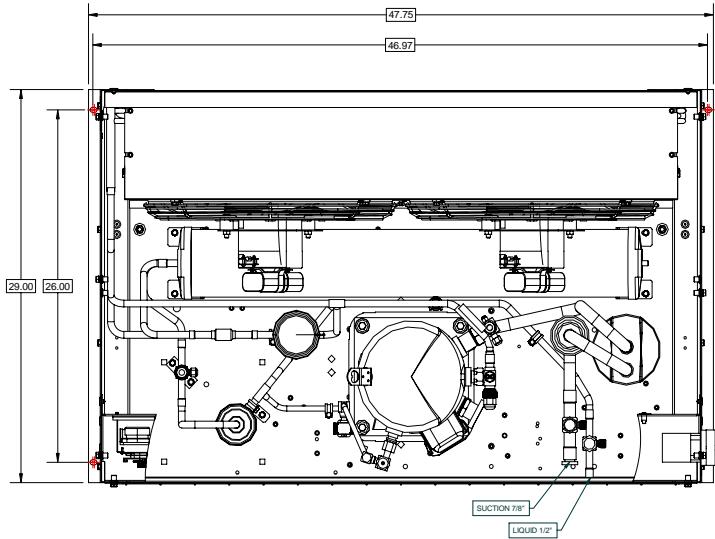
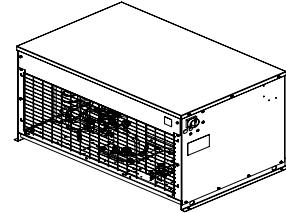




TECUMSEH HERMETIC CONDENSING UNIT

VSAG522ZXTHM
TPC preliminary
October 14, 2011

Model VSAG522ZXTHM
BOM 32L5442-2E
Air Cooled 5 1/2 HP
Application Low Temp
Refrigerant R404A



VSAG522ZXTHM	Dim. Enclosure(inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs.
	29.40	47.75	31.58	7/8 Sweat	1/2 Sweat	37.69	4200	24	600

*) Enclosure Mounting Holes, 26.25 x 58.5

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator	Ambient Temperatures																	
	85°F				95°F				100°F				110°F					
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	
-40	5.5	8400	4180	209	92	8500	4580	242	102	8600	4790	260	107	8300	5190	299	117	
-35	8.0	10400	4250	212	93	10100	4660	246	103	10100	4870	263	108	9500	5280	302	118	
-30	10.7	12400	4340	216	94	11900	4760	249	104	11700	4970	267	109	10800	5380	305	118	
-25	14.0	14500	4440	220	95	13600	4860	253	105	13300	5080	271	110	12200	5500	308	119	
-20	17.1	16700	4550	225	97	15500	4980	257	106	15100	5200	275	111	13600	5630	312	120	
-15	19.3	19000	4670	229	98	17500	5110	262	107	16900	5330	279	112	15300	5760	317	121	
-10	24.5	21400	4800	234	99	19700	5240	266	109	18900	5460	284	113	17000	5900	321	122	
-5	28.8	23900	4940	239	101	21900	5380	271	110	21100	5610	289	114	19000	6050	326	124	
0	33.5	26600	5090	245	103	24400	5530	277	111	23500	5760	294	116	21100	6210	331	125	
5	36.5	29500	5240	250	104	27000	5690	283	113	26000	5910	300	117	23500	6370	337	126	
10	43.7	32600	5390	257	106	29900	5840	289	114	28800	6070	306	119	26100	6530	343	127	

Performance @ 60 Hz, Return gas 40°F, SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

STANDARD

Unit BOM	32L5442-2E
Unit MODEL	VSAG522ZXTHM
Refrigeration RANGE	-40°F to 10°F
Design Pressure Low	181
Design Pressure High	450
Volts - HZ - Ph	200-230V 3~ 60HZ
Voltage Range	180 - 253
Min. Circuit Ampacity	24.52
Max. Fuse Size	40
Compressor MODEL	VSAG518ZXT
Compressor BOM	VS119RT-006-A4
Compressor LRA	153
Compressor RLA	16.41
OverLoad	INTERNAL
Relay	
Run Capacitor	
Run Capacitor Rating	
Start Capacitor	
Start Capacitor Rating	
Contactor	91014B
Unit Drawing	DGU1950-L302
Wiring no Fan controls	WD23-2XT2L

Fan Motor	810S186B40
Fan Motor Qty	2
Fan Motor RLA	1.9
Fan Blade	51528-3
Fan Guard	70832
Shroud	70611-1
High Pressure switch	84095-2L
Low Pressure Control	84026-2
Dual Pressure Conrol	
Condenser	50777-6
Head Master Valve	70107-1
Check Valve	56627
Process Valve	
Liquid Valve	
Suction Valve	31529-2
Receiver	51084
Receiver Qty	1
Accumulator	TK00044000
Liquid Filter	52000-164D
Sight Glass	70084-2
Suction Filter	70822-5S
CrankCase Heater	14947870

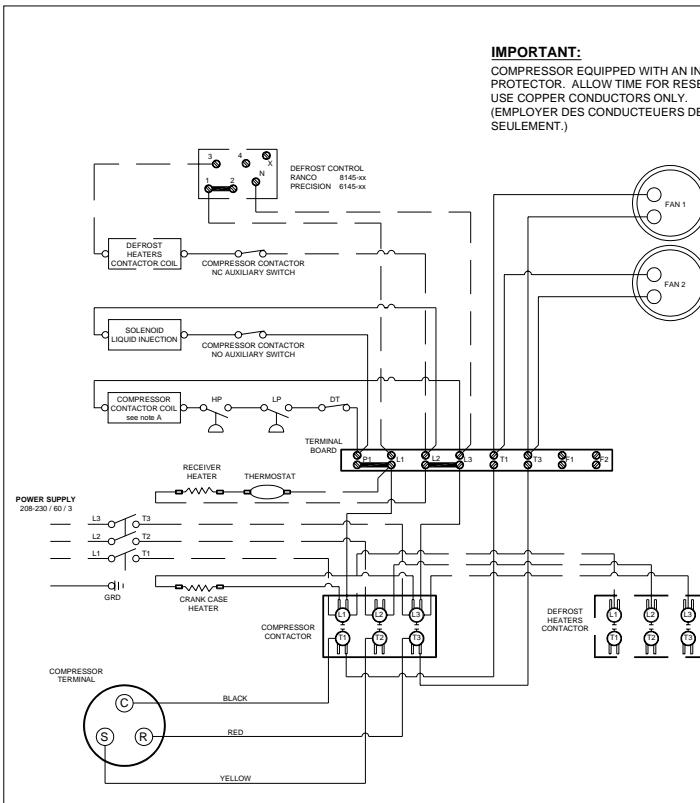
OPTIONAL

Adjustable Fan Ctrl (A)	LAFC-001
Defrost Timer (Tn)	LTCG-T2
Receiver Heater (R)	LHR-223
Solenoid Valve (S)	KSVC-285
Disconnect (D)	KDSG-601

BOM INDEX DESCRIPTION

32xYYYY-2ERA(F)TnDS

- E Enclosure
- R Receiver Heater
- A Adjustable fan control
- F Fixed fan Control
- T1 Defrost timer option
- T2 Defrost timer & Defrost Heaters Contactor
- D Disconnect
- S Solenoid liquid Valve (supplied loose)



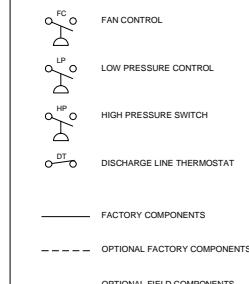
NOTES

FIELD WIRING NOTES

- ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
- CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUtER SEULEMENT.) PROVIDED BY EMPLOYER GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
- DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THAN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL. DEFROST HEATERS TO BE CONTROLLED WITH A CONTACTOR AS SHOWN ON THE DIAGRAM.

GENERAL NOTES:

- CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230V SOURCE IN PANEL AS SHOWN
- COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.



CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,
Liquid Injection Solenoid,
Fan control,
T1 & T2 defrost options

REL MAR 11/2011
WD23-2XT2L
REVISION